



PTO/SB/08A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/757,267
		Filing Date	January 14, 2004
		First Named Inventor	Anil Kumar et al.
		Art Unit	1712 2073
		Examiner Name	Jessica Stultz
Sheet	1	of	5
		Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		2,319,826	05-24-1943	Land-Pellet	428/324
		2,334,446	11-16-1943	Serrell	351/49
		2,475,921	07-12-1949	Smith	359/489
		3,276,316	10-04-1966	Makas	359/352
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		5,073,294	12-17-1991	Shannon et al.	252/299.01
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		5,644,416	07-01-1997	Morikawa et al.	349/86
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		Art Unit	1712 2073
		Examiner Name	SHITZ
Sheet	2	of	5
		Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					
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		Number - Kind Code ² (if known)			
JS	1	6,160,597	12-12-2000	Schadt et al.	349/98
JS	1	6,284,418 B1	09-04-2001	Trantolo	430/20
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JS	1	6,369,869 B2	04-09-2002	Schadt et al.	349/124
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			Filing Date	January 14, 2004	
			First Named Inventor	Anil Kumar et al.	
			Art Unit	17122073	
			Examiner Name	Stultz	
Sheet	3	5	Attorney Docket Number		1905A1

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
J		EP 0 397 263 B1		12.21.1994	N.V. Philips' Gloeilampenfabrieken		
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J		WO 97/22894		26.06.1997	Sola International Holdings Ltd.		
J		WO 98/19207 (Abstract)		05.07.1998	Carl-Zeiss-Stiftung		
J		WO 00/19252		04.06.2000	Intel Corporation		
J		WO 03/032066 A1		17.04.2003	E-Vision LLC		

Examiner Signature	Jordan	Date Considered	7/5/05
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		First Named Inventor	Anil Kumar et al.		
		Art Unit	1742 2073		
		Examiner Name	SHH2		
Sheet	4		5	Attorney Docket Number	1905A1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
SH		KVASNIKOV, E.D., KOZENKOV, V.M., AND BARACHEVSKII, V.A., "Birefringence in Polyvinylcinnamate Films Induced By Polarized Light," <u>Doklady Akademii nauk SSSR</u> , Vol. 237, No. 3, USSR pp. 633-636 (1977).	X
SH		KOZENKOV, V.M., CHIGRINOV, V.G., AND KWOK, H.S. "Photoanisotropic Effects in Poly (Vinyl-Cinnamate) Derivatives and Their Applications," <u>Mol. Cryst. Liq. Cryst.</u> , Vol. 409, pp. 251-267 (2004).	/
SH		HIKMET, R.A.M and de WITZ, C., "Gel Layer for Inducting Adjustable Pretilt Angles in Liquid Crystal Systems," <u>J. App. Phys.</u> Vol. 70, No. 3, pp. 1265-1266 (August 1991).	/
SH		SCHADT, Martin et al. "Surface-Induced Parallel Alignment of Liquid Crystals by Linearly Polymerized Photopolymers," <u>Jpn. J. Appl. Phys.</u> Vol. 31, No. 7, pp. 2155- 2164 (July 1992).	X
SH		SCHADT, Martin "Optics and Applications of Photo-Aligned Liquid Crystalline Surfaces," <u>Nonlinear Optics</u> , Vol. 25, pp.1-12 (2000).	/
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SH		DYADYUSHA, A.G. et al. "Light-Induced Planar Orientation of a Nematic Liquid Crystal on an Anisotropic Surface without Microrelief," <u>Ukr. Fiz. Zhurn.</u> (Ukraine), Vol. 35, No. 5, pp. 1059-1062.	X

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		Application Number	10/757,267	
		Filing Date	January 14, 2004	
		First Named Inventor	Anil Kumar et al.	
		Art Unit	4742 2873	
Sheet	5	5	Attorney Docket Number	1905A1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
P		CASTELLANO, Joseph A. "Surface Anchoring of Liquid Crystal Molecules on Various Substrates," <u>Mol. Cryst. Liq. Cryst.</u> , Vol. 94, pp. 33-41 (1983).	
H		HUANG, D.D. et al. "Effect of Aligning Layer Thickness on Photo-Aligned Ferroelectric Liquid Crystal Displays," <u>Proceedings of the 6th Chinese Optoelectronics Symposium, Hong Kong China, IEEE (New York)</u> , pp. 231-234 (2003).	
H		CHIGRINOV, V.G. and KOZENKOV, V.M., "New Results on Liquid Crystal Alignment by Photopolymerization," <u>Proceedings of the SPIE- The International Society for Optical Engineering</u> , SPIE Vol. 2409 pp. 130-140 (1995).	

Examiner Signature	<i>Joseph A. Castellano</i>	Date Considered	7/5/05
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		Filing Date	January 14, 2004		
		First Named Inventor	Kumar et al.		
		Art Unit	2873		
		Examiner Name	Not Assigned Stultz		
Sheet	1	of	4	Attorney Docket Number	1905A1

U.S. PATENT DOCUMENTS					Class/Div
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
[Handwritten initials]		3,361,706	01-02-1968	Meriwether et al.	252/586
		4,166,043	08-28-1979	Uhlmann et al.	252/600
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	5,698,141	12-16-1997	Kumar	252/586	

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[Handwritten initials]		WO 89/11674	11-30-1989	Plessey Overseas Limited		
		WO 00/77559	12-21-2000	PPG Industries, Inc.		
		WO 01/02449	01-11-2001	PPG Industries, Inc.		
		WO 01/55960	8-2-2001	Rolic AG		
		WO 02/29489	4-11-2002	Alphamicon, Inc.		
		WO 02/058921	8-1-2002	Alcat, Incorporated		
		WO 03/019270	3-6-2003	Kim, Su-Jin		
	EP 1 203 967 A1	5-8-2002	Rolic AG			

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				Art Unit	2933
				Examiner Name	Not Assigned Stultz
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		Number - Kind Code ² (if known)			
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		5,962,617	10-05-1999	Slagel	528/61
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		6,187,444	02-13-2001	Bowles, III et al.	428/423.19
		6,239,778	5-29-2001	Palfy-Muhoray et al.	345/87
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[illegible]

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				Filing Date	January 14, 2004
				First Named Inventor	Kumar et al.
				Art Unit	2823
				Examiner Name	Not Assigned SH 112
Sheet	3	of	4	Attorney Docket Number	1905A1

[illegible][illegible]

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